

Jack Lutz

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Education

University of California, Los Angeles

Expected Graduation June 2027

B.S. Statistics and Data Science, Minor in Mathematics GPA: 3.5, Major GPA: 3.8

Los Angeles, CA

- **Relevant Coursework:** Probability Theory, Mathematical Statistics, Experimental Design, Linear Algebra, Differential Equations, Vector Calculus, Data Analysis and Regression, Game Theory

Experience

Lutz Consulting Group

Nov 2024 – Present

Founder

Las Vegas, NV

- Engineered computer vision pipeline using GPT-4 Vision and AWS S3 to extract and classify 40,000+ product tags; built Streamlit review dashboard backed by PostgreSQL, enabling staff to reconcile full inventory in one weekend.
- Analyzed 138 months of transaction data; built Gradient Boosting forecasting model with engineered lag, rolling, and seasonal features, achieving 11.5% MAPE, 58% improvement over naive baseline on 24-month holdout validation, uncovering \$550K+ in dead stock for liquidation.

New York Life Insurance Company

June 2025 – Aug 2025

Data Analyst Intern

New York, NY

- Built RAG-enabled underwriting chatbot prototype using company underwriting manual as knowledge base, demonstrating feasibility of LLM-powered policy guidance.
- Finalist in company-wide AI Innovation Competition for prototyping RAG-enabled chatbot plugin for Tableau dashboards, querying 10+ years of nationwide data with office-level granularity.
- Designed A/B testing framework demonstrating LLM sycophancy via domain-specific underwriting prompts; findings drove prompt engineering guidelines for production chatbot deployment.

Projects

FeedMe | Co-Founder & CIO | Python, FastAPI, Go, Supabase, PostgreSQL, Google OR-Tools

2024 – Present

- Co-founded UCLA dining recommendation startup; architected full backend infrastructure serving CP-SAT constraint-optimized meal plans across 20 campus dining locations.
- Built automated Go scraper ingesting 38,000+ menu items twice daily via GitHub Actions, achieving 95%+ data reliability across 900+ tracked pipeline runs with zero failures.
- Designed 35-endpoint REST API in FastAPI backed by PostgreSQL; OR-Tools CP-SAT solver generates macro-constrained meal plans in 52ms average solve time.

Quantitative Research Backtester & Platform | Python, TypeScript, C++, FastAPI, Vite

2025 – Present

- Built full-stack quantitative research platform: frontend strategy IDE (Monaco), real-time charting (Lightweight Charts), and MCP AI integration layer, on top of a co-developed C++ backtesting engine with custom DSL and per-fold walk-forward validation.
- Engineered data pipeline integrating equity, crypto, macro (FRED), and fundamental data (SEC EDGAR 10-K/10-Q/13F/insider trades) across 11,000+ US equities.
- Built MCP server with 27 AI tools enabling LLM-assisted strategy development including data retrieval, DSL code generation, backtest execution, live UI awareness and control, subagent orchestration.

AI Web Scraper Chrome Extension | TypeScript, Chrome Extension MV3

2025

- Built and published Chrome extension with two-mode LLM pipeline (DOM schema inference and automated data cleaning) backed by custom DOM fingerprinting for pattern detection across arbitrary pages; zero dependency core engine with pagination and infinite scroll via MutationObserver.

Skills

Languages: Python, R, SQL, TypeScript/JavaScript, Go, C++

ML/Statistical: PyTorch, Scikit-Learn, Statsmodels, FAISS, LangChain, Hugging Face, Google OR-Tools, pandas, NumPy

Infrastructure: FastAPI, PostgreSQL, Supabase, Docker, AWS, Git, Vercel, Railway, React, Expo, MCP, Linux, Claude Code

Leadership: Eagle Scout | President, Bruin AI Research Club (Led DataFest team, individual problem-solving award 2023) | Lambda Chi Alpha Executive Board